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**DISN Access Transport Services (DATS)  
Industry Day  
10 May 2004**

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# Industry Day *Agenda*

Time	Subject	Presenter
0730 - 0830	Registration	DNG-PMO
0830	Welcome to Industry Day	Mr. Shirley
	Introduction to DISN/GIG-BE	Mr. Montemarano
	RFI Considerations	Mr. Shannon
	30 Minute Break	Mr. Shirley
	Q & A	Mr. Montemarano

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# Industry Day

## *Administrative Remarks*

- Red badges must be escorted by DISA staff
- Breaks as needed
- No food or drinks in conference room



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# **DISN Next Generation**

## ***Hierarchy***

**Program Director**  
**Tony Montemarano**

**Chief Executive Engineer**  
**Dave Mihelcic**

**Program Manager**  
**Randy Shirley**

**Deputy Program Manager**  
**Tim Shannon**

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# **Purpose** *Communicate*

- **Unclassified** forum
- **Opportunity to clarify RFI**
- **Answer questions**
  - Open microphone during Q&A
  - Minutes/Q&A published on DITCO web site
- **No commitment from the Government**
- **Nothing is to be construed as binding**
- **RFI responses by 24 May < 10 pages**

***Dialog with Industry***

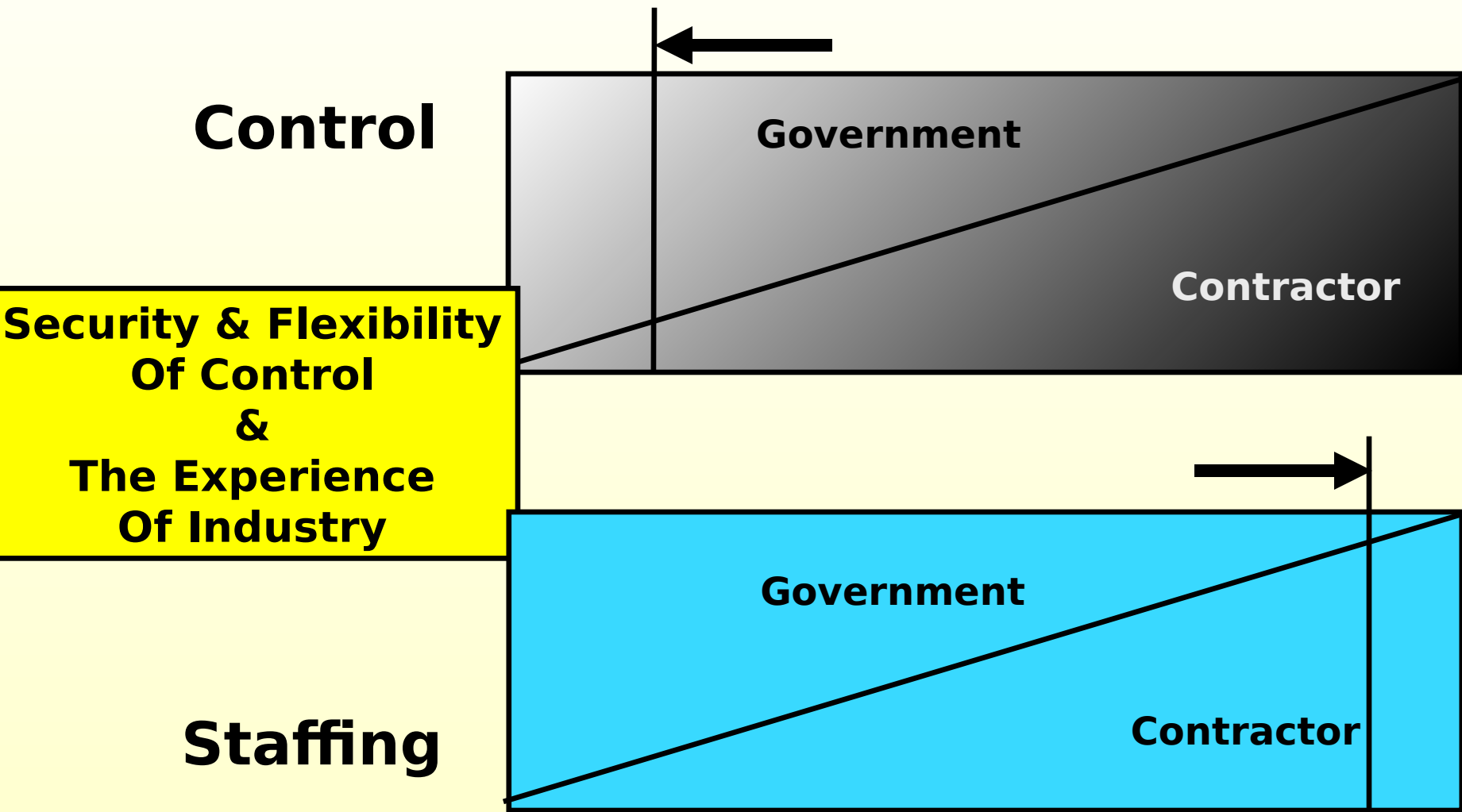
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# DISA Industry Relationship

*Providing Network Services*



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# Elements of the DISN

## *Commonly Understood*

**Functional Networks**

**VOICE**

(Unclassified)  
(Classified (S-TS))

Defense Switched Network (DSN)  
Defense Red Switch Network (DRSN)

**DATA**

(Unclassified)

IP Core (Gigabit Switch Router Network)  
uNclassified but sensitive IP Router Network

(NIPRNET)

(Classified (S))

Secret IP Router Network (SIPRNET)

**VIDEO**

(Common User (U-TS)) DISN Video Services - Global (DVS-G)

**TRANSPORT**

(Common User)

DISN ATM Service (DATMS)  
IDNX Network

**Muxed Svcs**

DISN CONUS

**Physical Layer**

DISN Enhancement Program (DEP)  
DISN Pacific & HITS (Hawaii)

DISN Europe & Digital European

Backbone (DEB)



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DNG

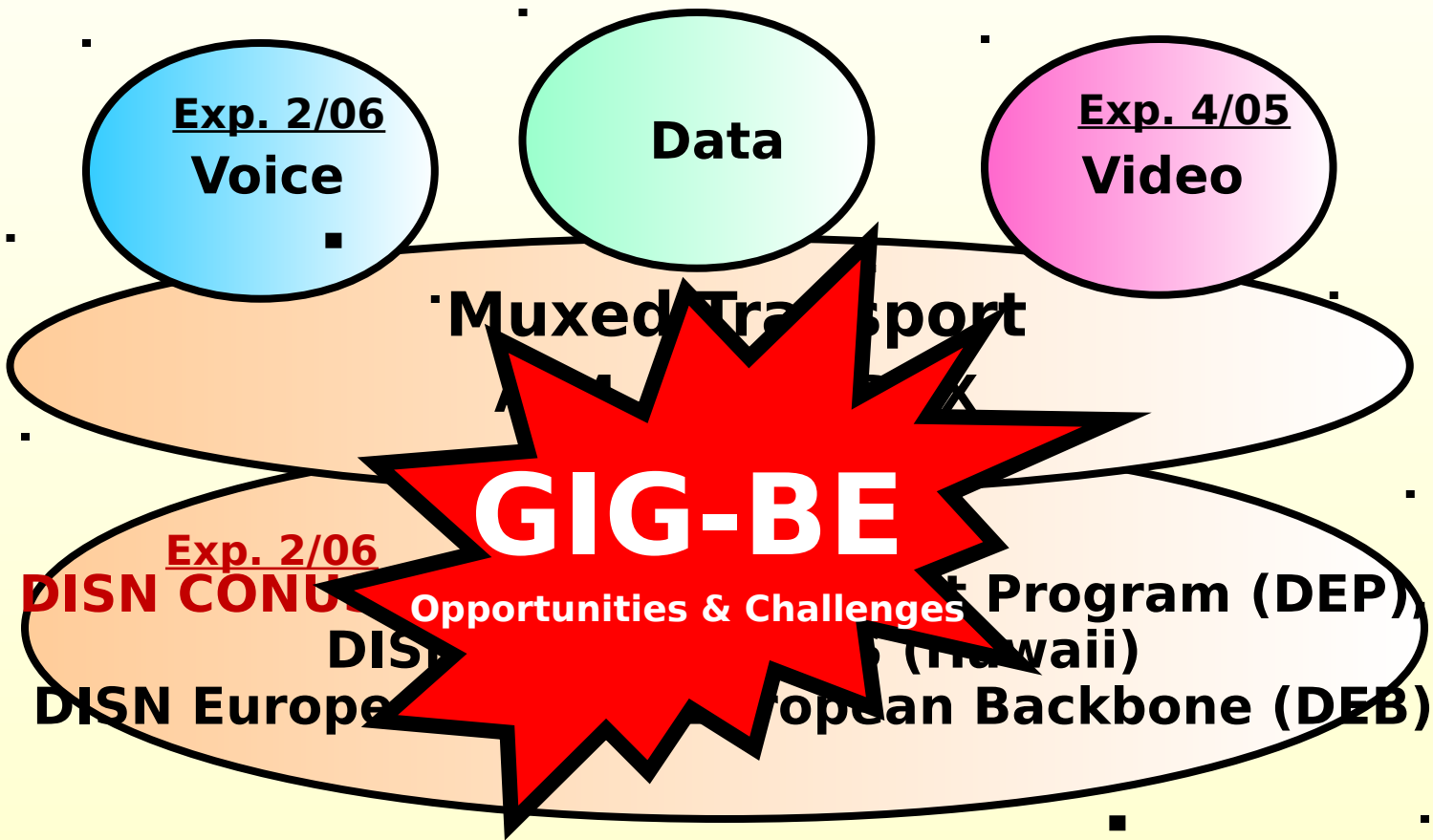
# Opportunities & Challenges

Hawaii

Voice

HITS

Exp. 2/07



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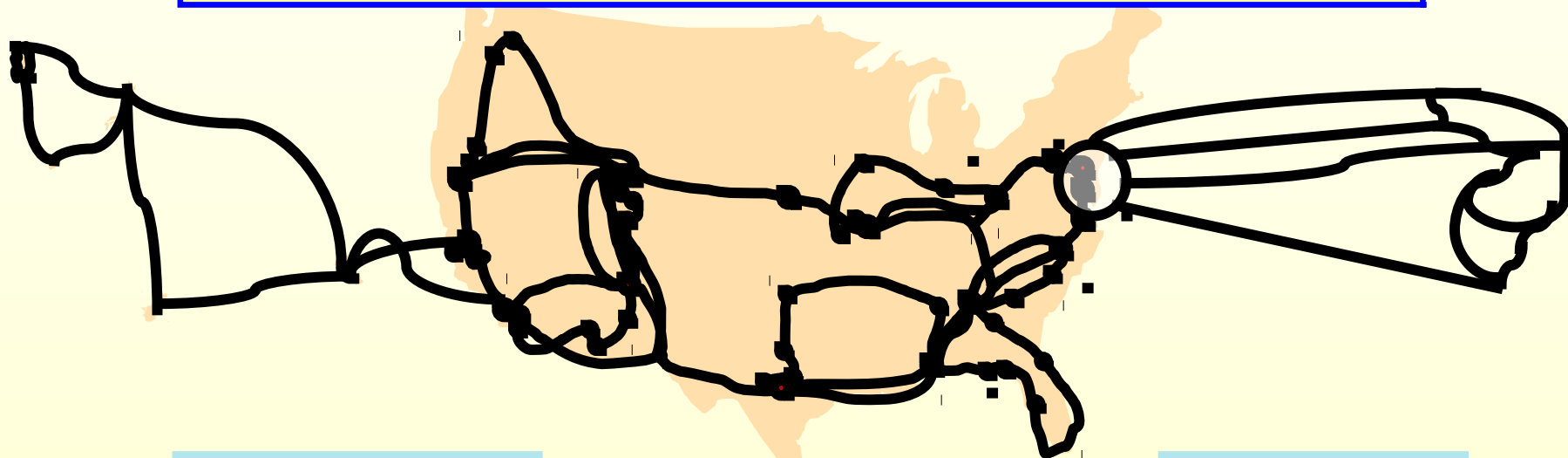
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# GIG-BE

*Global Information Grid-Bandwidth  
Expansion*

**Ubiquitous, Secure, Robust, Optical IP Terrestrial Network**

**Targeting 80-100 Locations Worldwide**



*Increased  
Bandwidth*

**&**

*Physical  
Diversity*

**IOC Sep 04 ----- FOC Sep 05**

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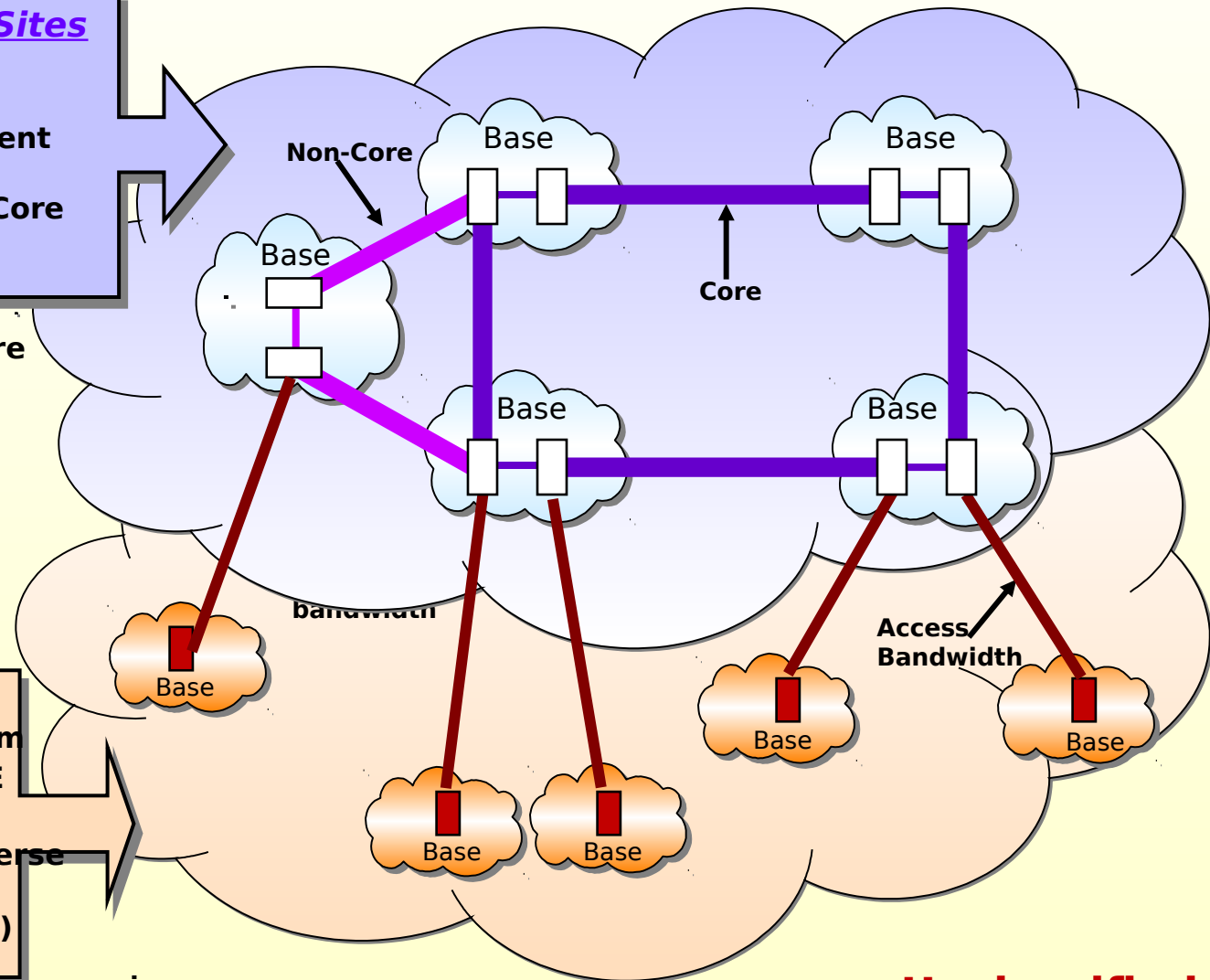
# DISN Migration to GIG-BE

## GIG Bandwidth Expansion Sites (~90):

- Funded by GIG-BE Program
- Redundant Switching Equipment (Where appropriate)
- Physically Diverse Access To Core
- 2.5 to 10 GBPS Minimum (As Affordable)
- Minimal Latency
- Rapid Provisioning Across Core

## Other DISN Sites (~600):

- Not funded by GIG-BE Program
- Optimized Access Into GIG-BE Sites
  - Possibility of Physically Diverse Routes In Metro Areas
- Up to 10 GBPS (As Affordable)
- Reduced Latency
- Reduced Provisioning Time



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# **RFI Considerations**

## ***Potential Circuits***

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**“The DISN Transmission Services CONUS (DTS-C) contract with AT&T and the DISN Switched/Bandwidth Manager Services CONUS (DS/BMS-C) contract with MCI are expiring over the next two years. These two contracts currently provide a large portion of the switching infrastructure and transmission services for the existing DISN in CONUS.”**

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**“The DISN CONUS Extension contracts (DTS-CE) are also used for DISN transport service, primarily for sub-T1 or short-haul circuits and will expire in approximately 5 years.”**

**Bulletin Board Circuits as Appropriate.**

**New Requirements.**

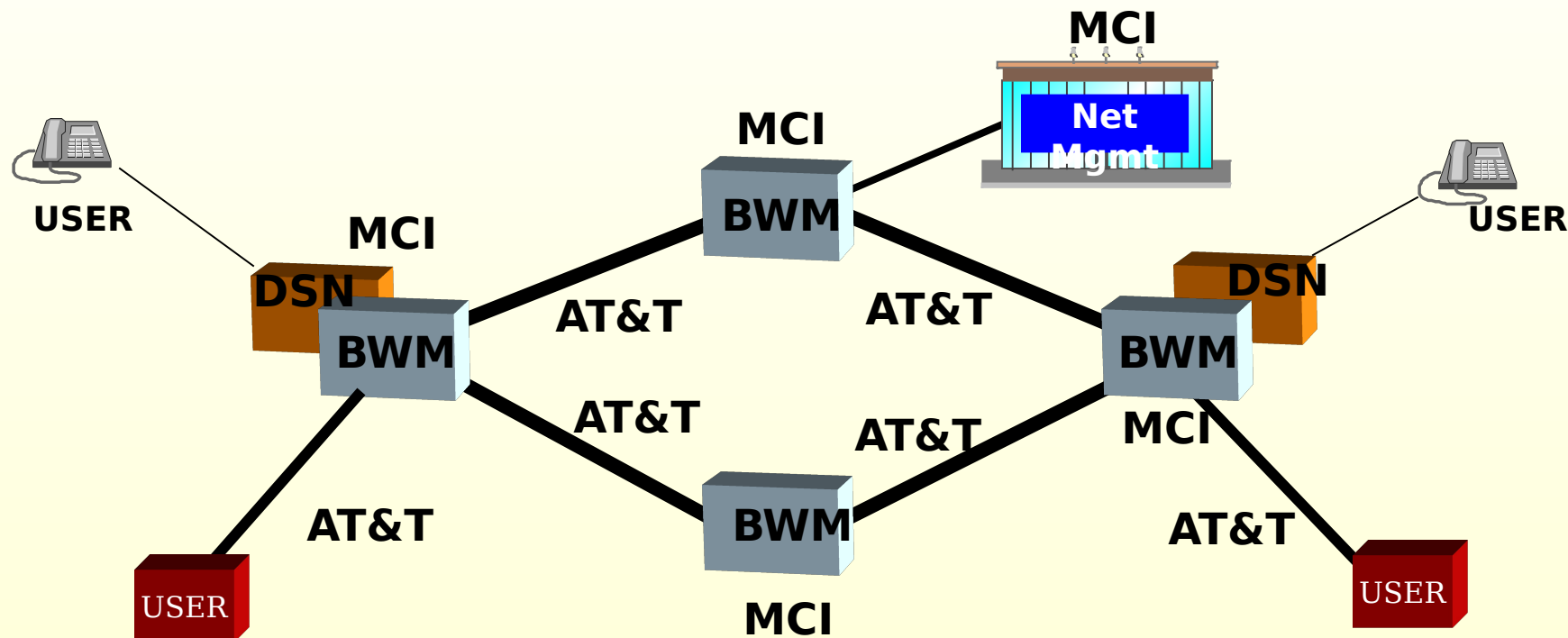
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# RFI Considerations

## *DTS-C + DS/BMS-C Contracts*



**35 Bandwidth Managers(BWM) controlled by MCI**  
**12 DSN Tandem Switches controlled by MCI**  
**Roughly 4800 Circuits provided by AT&T**

**Expirations Effectively February 2006**

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# **RFI Considerations**

## ***DATS similar to DTS-C and DTS-CE***

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**“It is anticipated that the DATS will provide services similar to those currently being provided by the DTS-C and DTS-CE contracts.”**

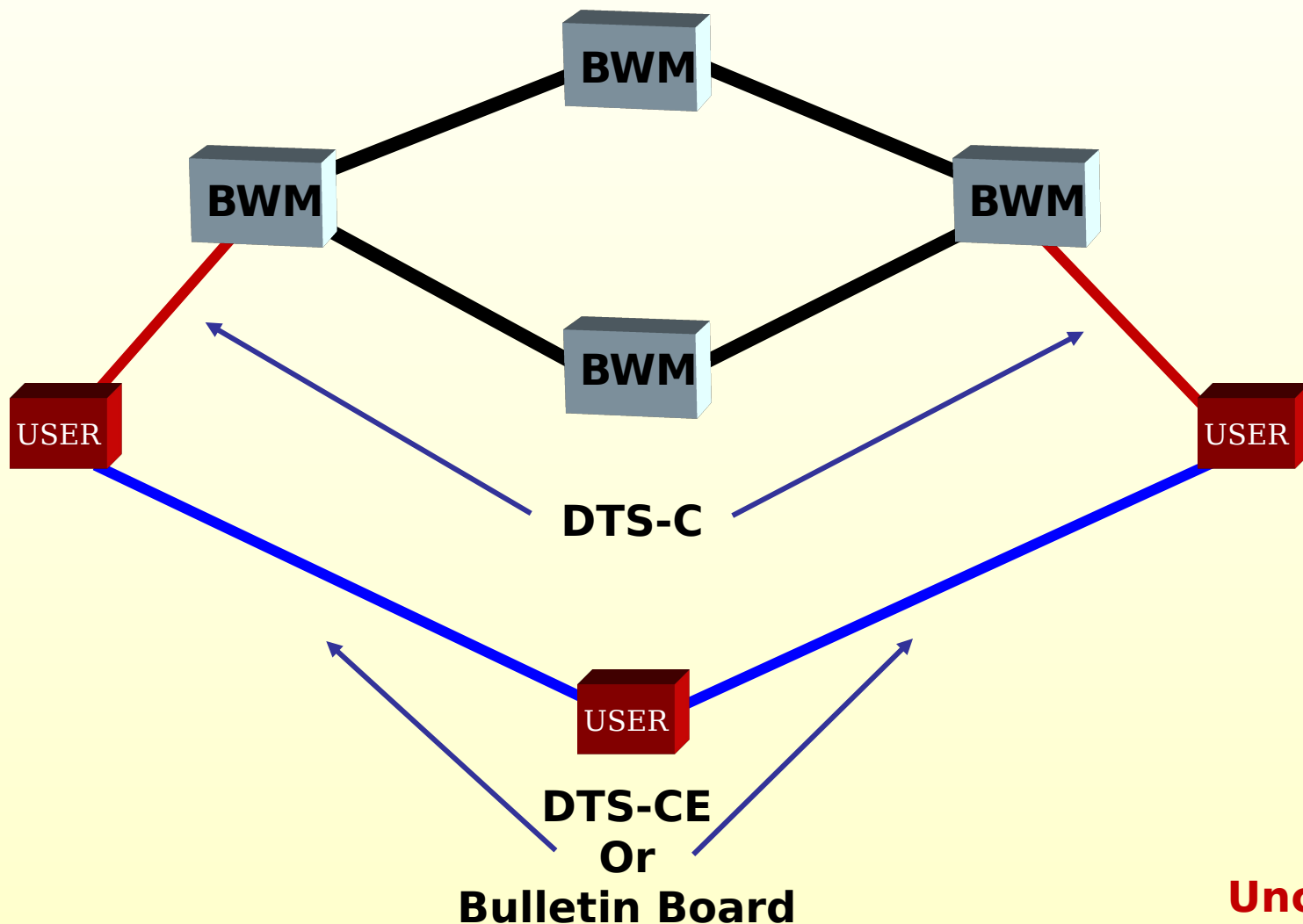
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# RFI Considerations

## *DATS similar to DTS-C and DTS-CE*



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# RFI Considerations

***“Last Half Mile” to meet DOD customer requirements***

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**“‘Last-Half Mile,’  
Base/Post/Camp/Station Inside Wire,  
Facilities issues and other Access  
issues have been on-going challenges  
for DISA in meeting the  
telecommunications requirements of  
its DOD Customers.”**

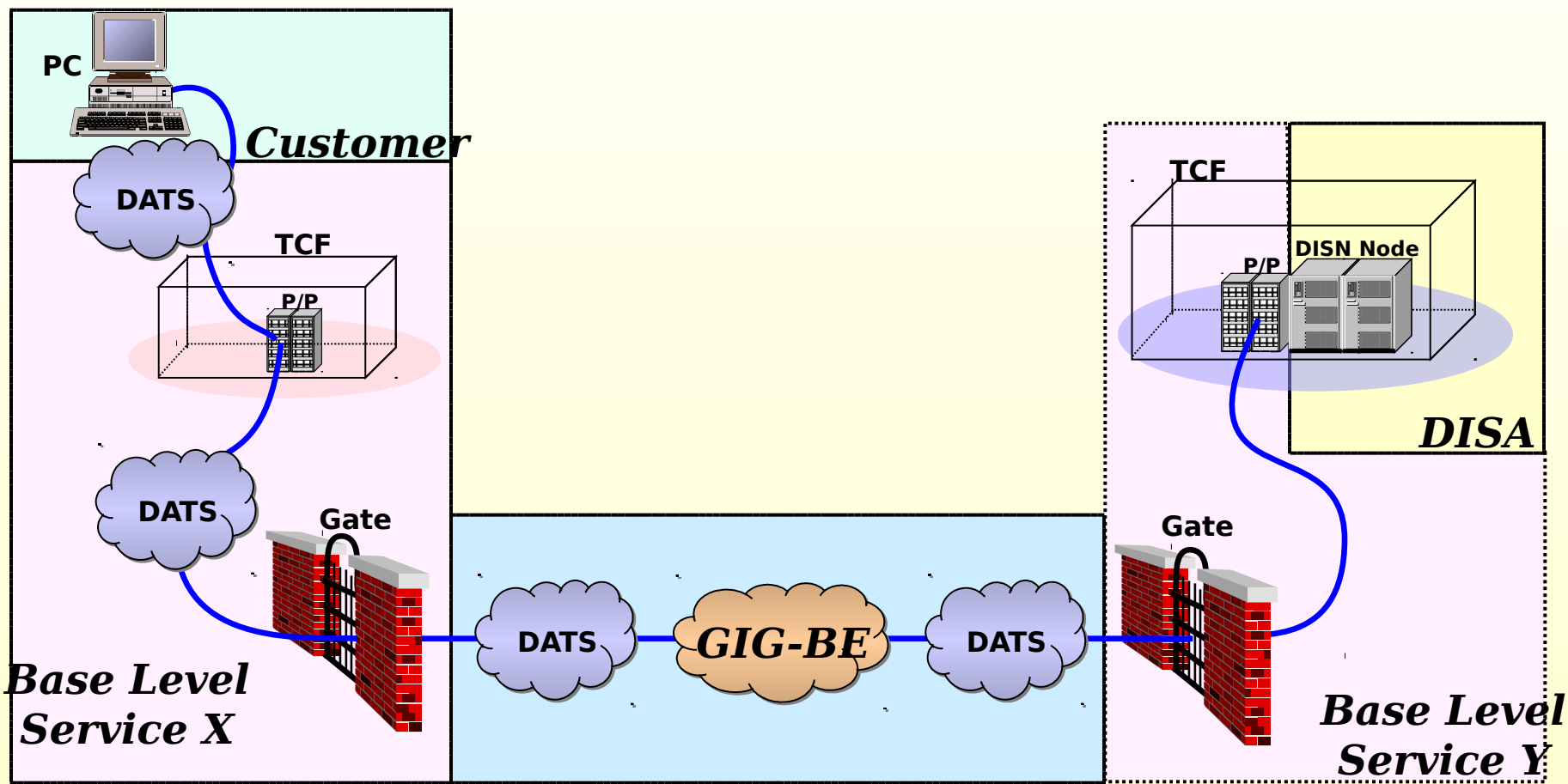
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# RFI Considerations

*“Last Half Mile” to meet DOD customer requirements*



TCF: Tech Control Facility

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# RFI Considerations

## *Circuit restoration*

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**“Vendor accountability as it relates to circuit restoration is absolutely critical to guaranteeing overall network availability. The vendor must have a real-time capability to monitor and manage transmission facilities 24x7 to ensure that services are delivered in accordance with DISA requirements. Capabilities and plans for providing customer network management, peering partner relationships or customer-carrier electronic bonding through web services for on-line service activation, inventory, alarm notification, trouble management**

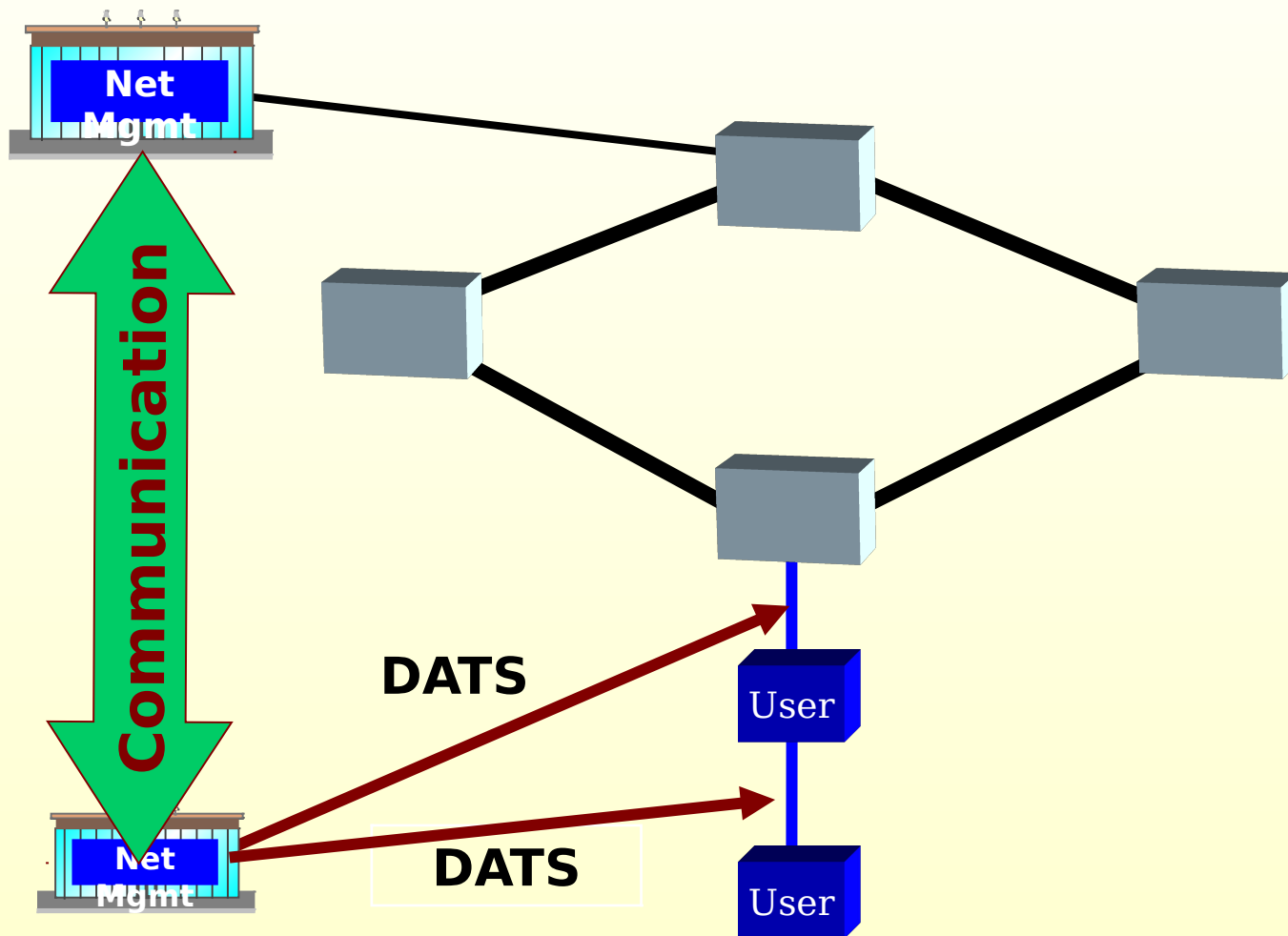
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# RFI Considerations

## *Circuit restoration*



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# **RFI Considerations**

## ***Integration with High Bandwidth Backbone***

**There will be an existing High Bandwidth Backbone that must be integrated with services acquired under DATS and, potentially, other contractual actions that may follow. The DATS will be used to connect users to that network and to other users within CONUS. Vendor provided circuits will be terminated at commercial demarcs and extended by either the Government or the vendor to terminate on government-owned equipment**

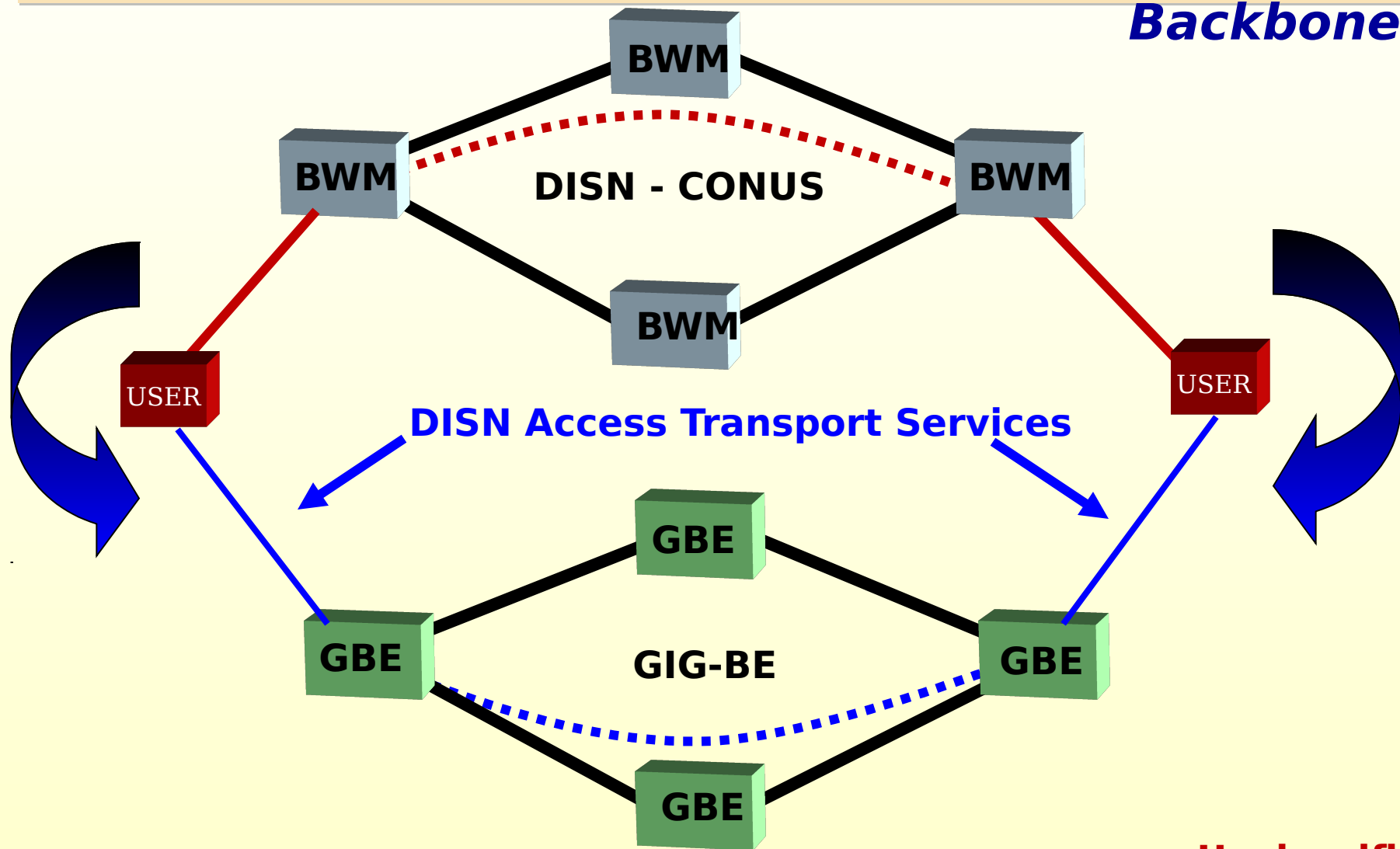
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# RFI Considerations

## *Integration with High Bandwidth Backbone*



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# RFI Considerations

## *Reconfigure bandwidth with minimum intervention*

**“The Government desires to provision a variety of transmission services across OC-N trunks using Multiple Service Provisioning Platforms (MSPP’s). Clear channel service with virtual concatenation is desired so that DISA may control and rapidly reconfigure leased bandwidth with minimum intervention by the vendor.”**

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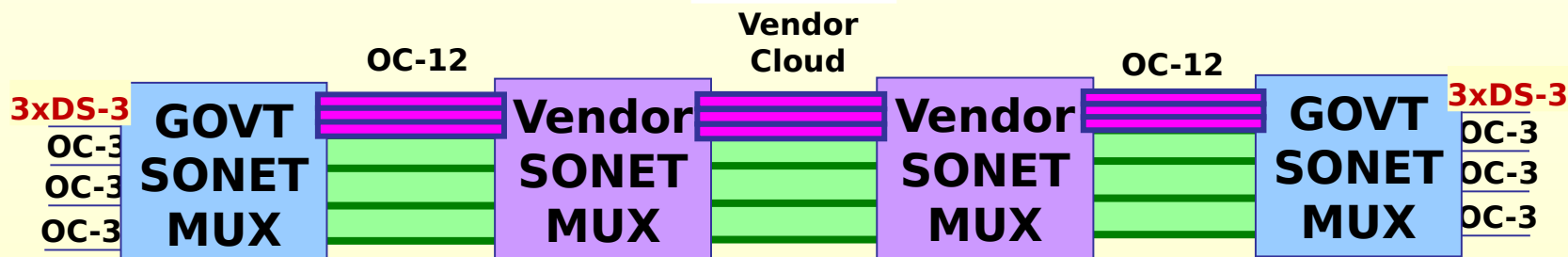


## Reconfigure bandwidth with minimum intervention

- **Clear Channel, Auto Concatenation, SONET wave services are critical for DISA's provisioning process**
- **DISA desires DATS to enable this feature when the OCn trunk is provisioned**
- **The advantage of Clear Channel, Auto Concatenation, SONET wave service, is that it would not require DISA to coordinate with the vendor to change how the bandwidth is being utilized. This will speed up DISA's provisioning process.**

## EXAMPLE

# TOMORROW



**The Vendor's equipment detects the change through the overhead and their systems reconfigures automatically to accept the new DS-3s**



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# **RFI Considerations**

## ***Aggressive transition schedule***

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**“Over 9,000 circuit actions are anticipated during the transition from services provided by the DTS-C and DTS-CE contracts. The DTS-C transition (approximately 7,000 circuits) must be completed as quickly as possible. Industry strategies to meet an aggressive transition timeline are another issue of great interest. The Government is considering offering contractual incentives for accelerated service delivery during this transition and is interested in recommendations on how best to**

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# **RFI Considerations**

## ***Aggressive transition schedule***

**DS/BMS - C** ***Expires Feb 06***



**DTS - C** ***Expires Jul 06***



**DTS - CE** ***Expires Mar 09***



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# **RFI Considerations**

## ***Industry strategies to reduce delivery times***

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**“During the sustainment phase, the Government is interested in strategies, including incentives and remedies, to encourage service delivery times in the 45-90 day range. Strategies should also address ways to streamline the vendor’s service order process and other possible partnerships between DISA and industry to reduce delivery times.”**

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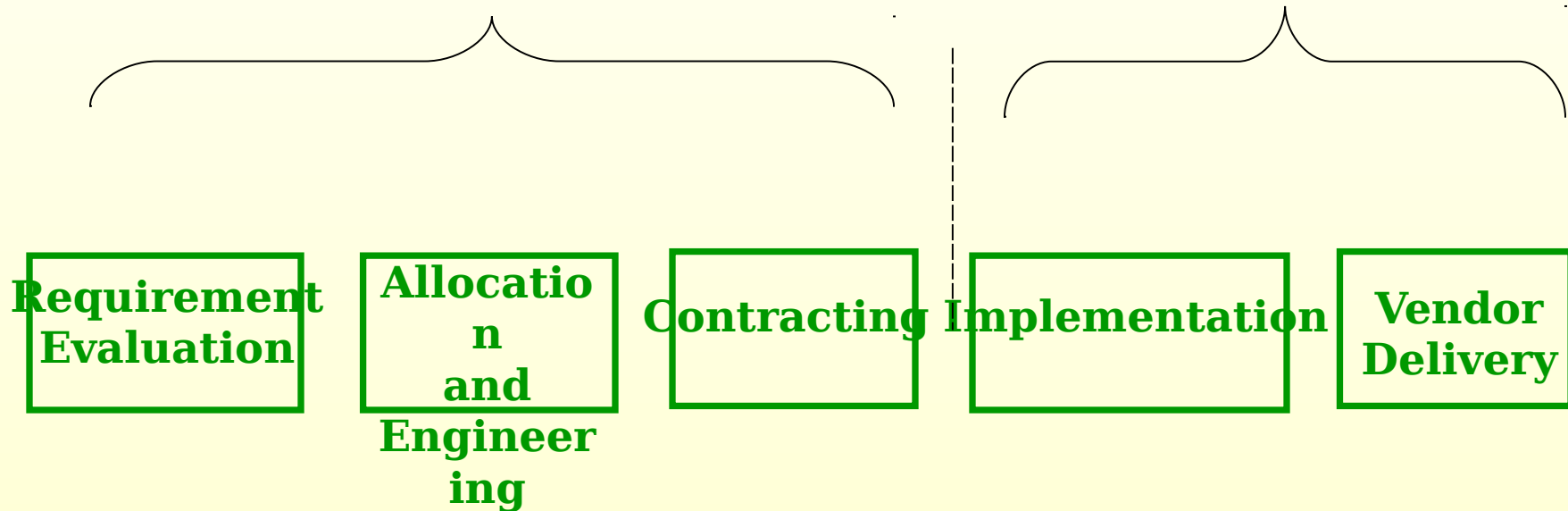
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# **RFI Considerations**

## ***Industry strategies to reduce delivery times***

***Engineering The Solution***

***Delivering The Solution***



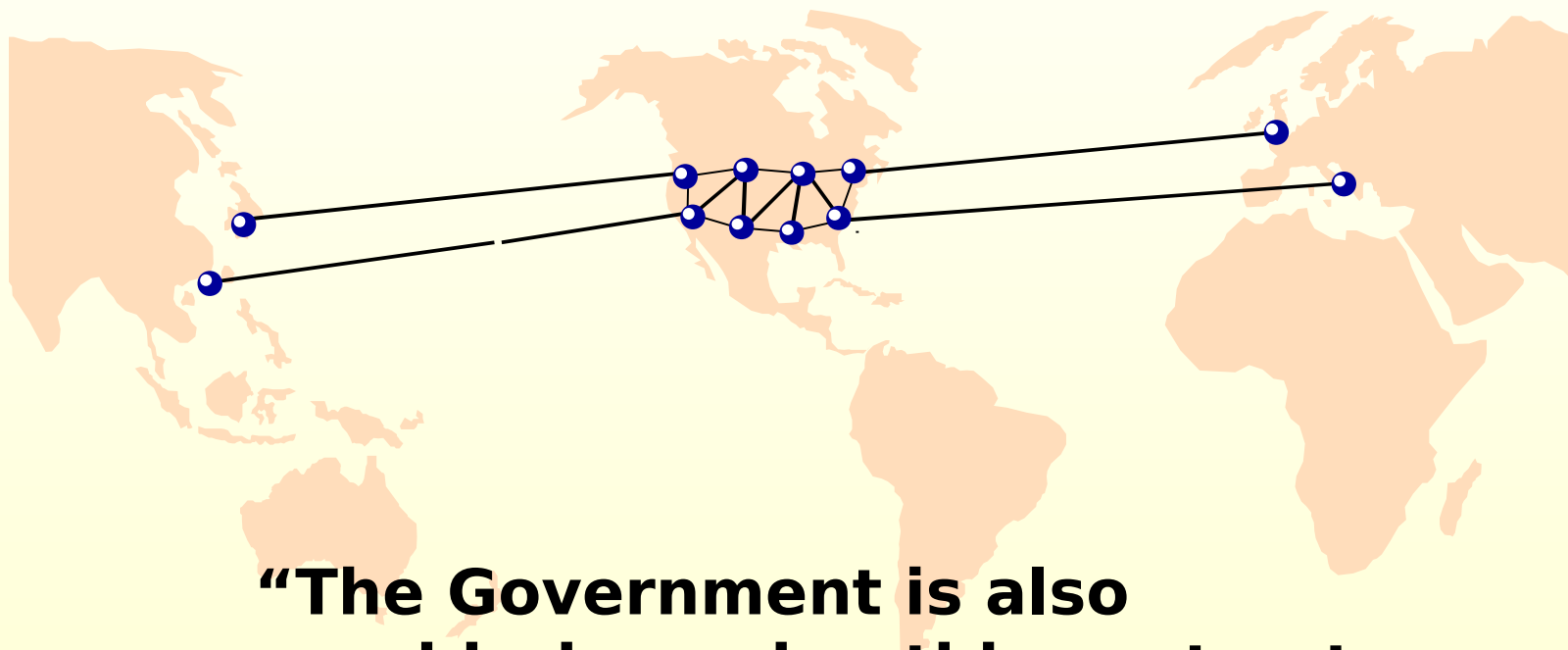
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# RFI Considerations

## *CONUS to OCONUS connectivity*



**“The Government is also considering using this contract to provide CONUS to OCONUS connectivity and is interested in comments on this subject.”**

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# **Industry Day**

## ***Way Ahead***

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**11 May - Continue to take questions**

**14 May - Post minutes and Q & A on DITCO  
web site**

**24 May - RFI responses due**

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**30 Minute Break**

**- Reconvene -**

**Question and Answer session with Open  
Microphone**

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# **Industry Day**

## ***Questions/Answers***

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